



# Forest Health Protection

## Pacific Southwest Region

**Lat 40.21799 Lon -122.27612**

**File Code: 3420**

**Date: February 11, 2009**

**To:** Forest Supervisors (Eldorado, Inyo, Lassen, Plumas, Modoc, Sierra, Stanislaus, Shasta-Trinity, Sequoia and Tahoe National Forests and the Lake Tahoe Basin Management Unit) and Park Superintendents (Sequoia Kings Canyon and Yosemite National Parks)

**Subject:** Douglas-fir Tussock Moth Pheromone Detection Survey 2008 Report (NE09-01)

Enclosed are the results of the 2008 cooperative Douglas-fir tussock moth (DFTM) pheromone detection survey (Table 1). Traps were installed in 155 plots (5 traps/plot) with data collected for all plots (100% reporting). There were 155 plots (100%) with an average of <25 males per trap (all plots averaged <10 males per trap). This represents lowest average trap count for the last 13 years. No DFTM caused defoliation was detected in California in 2008.

Increases and declines in trap counts are very common with DFTM populations. Based on the results of the 2008 trap monitoring, there should be very few, if any, areas where defoliation is detected in 2009. Forest Health Protection staff will conduct monitoring of other DFTM life stages if any defoliation is detected this summer. Land managers will be notified of the results of any additional monitoring. Field going personnel are urged to continue to check for evidence of feeding and defoliation on white fir throughout the susceptible host type this coming summer and fall and report any findings to their Forest Health Protection Shared Services Office.

Sufficient trapping materials have been ordered for the detection survey plots for 2009. They will be distributed to cooperators in June or July of this year. Please direct any questions and/or observations of feeding or defoliation to Danny Cluck (530-252-6431) or Beverly Bulaon at (209-532-3671). Updates on population monitoring will be distributed to land managers as needed. FHP appreciates the continued cooperation from all agencies in this ongoing west-wide survey effort.

*/s/ Danny Cluck*

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**cc:** Don Owen, CAL FIRE, Redding  
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FHP – Regional Office, Shasta – Trinity NF & Stanislaus NF

Table 1. Number of Douglas-fir tussock moth pheromone detection survey plots by trap catch for 1996-2008 for California.

Year	Total	NUMBER OF PLOTS WITH AN AVERAGE MOTH CATCH PER TRAP OF:														
	# of Plots															
		0<10	10<20	20<25		25<30	30<35	35<40	40<45	45<50	50<55	55<60	60<65	65<70	70<75	75+
1996	149	33	26	16		8	7	12	9	5	8	6	8	5	1	5
	100%	22%	17%	11%		6%	4%	8%	6%	3%	6%	4%	6%	3%	1%	3%
1997	142	88	27	10		9	4	3	0	0	1	0	0	0	0	0
	100%	62%	19%	7%		6%	3%	2%	<1%							
1998	159	81	22	11		9	6	3	10	7	5	2	1	1	1	0
	100%	51%	14%	7%		6%	3%	2%	6%	4%	3%	<1%	<1%	<1%	<1%	
1999	159	126	20	5		3	2	2	0	0	0	1	0	0	0	0
	100%	79%	13%	3%		2%	1%	1%	1%							
2000	185	154	15	4		4	0	1	2	2	2	0	0	1	0	0
	100%	83%	8%	2%		2%	<1%		1%	1%	1%	<1%				
2001	183	95	57	13		10	6	0	1	1	0	0	0	0	0	0
	100%	52%	31%	7%		5%	3%	<1%		<1%						
2002	168	126	31	5		3	3	0	0	0	0	0	0	0	0	0
	100%	75%	18%	3%		2%	2%									
2003	163	53	42	11		11	10	14	13	3	1	4	0	1	0	0
	100%	32%	26%	7%		7%	6%	8%	8%	2%	1%	2%	1%			
2004	174	68	43	6		16	11	6	5	3	0	2	1	1	0	0
	* 93%	39%	25%	3%		9%	6%	3%	3%	2%	1%		<1%	<1%		
2005	195	139	15	11		7	4	3	2	3	1	0	0	0	1	1
	*95%	71%	8%	5%		4%	2%	2%	1%	2%	<1%		<1%			
2006	164	98	26	8		8	5	3	4	3	4	2	0	1	1	1
	100%	60%	16%	5%		5%	3%	2%	2%	2%	2%	2%	<1%		<1%	<1%
2007	164	157	6	0		0	1	0	0	0	0	0	0	0	0	0
	100%	96%	4%	<1%												
2008	155	155	0	0		0	0	0	0	0	0	0	0	0	0	0
	100%	100%														

\* Some plots were not collected due to weather.

